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1 April 1954

MEMORANDUM FOR: CHIEF, GENERAL PHYSICS BRANCH

SUBJECT: Procedure for [redacted] 13 April 1954, re P-101, I.R. Communication System and P-115, Transistorized Receivers and Transmitters 25X1

1. This memorandum covers the proposed procedure for correcting the present difficulties at [redacted] It is hoped that this plan will be submitted to the APD Panel for its consideration, discussion, and action. 25X1

2. The work at [redacted] has suffered for two outstanding reasons. First, there is the problem of lack of cleared personnel. This lack has arisen from the inability of [redacted] to hold their employees, from failure of [redacted] to submit sufficient clearance requests at an early date, and from the usual three month clearance delay. Second, there is the problem of lack of planning. The original planning on Task I, P-101, for example, was so overly optimistic that even miraculous performance would look poor in comparison to the plan. 25X1 25X1 25X1

3. It is proposed that both of the above difficulties be corrected in the following manner. [redacted] will be asked to replan the work on P-101 and P-115. These plans, which will preferably be made on paper with an APD representative present, should be complete project plans from the work load of each individual cleared to the scheduling of work and funds during each of the three phases. Realistic monetary and work deadlines should be set up at the end of each phase and within each phase if possible. The delay for clearance should be considered in the planning. 25X1

4. When planning the future work on P-115, it will be necessary to establish firm objectives. A suggested list of three sets of transmitters and receivers is given. These sets will be based on the same fundamental transmitter and receiver circuits and will differ only in input and output circuits.

Set No.	Transmitter	Receiver
1	Personal communications transceiver, 1000 yd. range under city conditions, capable of being concealed on person when in operation, eight hour operating life at 70°F - 100% receiving cycle - 12½% transmitting cycle, audio response 300 - 3000 cycles per second.	

Set No.

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Set No.	Transmitter	Receiver
2	Audio-surveillance transmitter, circuit of Set #1 Transmitter with sufficient audio gain provided to pickup person speaking 20 feet from high or low impedance microphone, audio compression to be provided, terminals provided for external switching, life at 70° to 120°F to be 6 months with 25% transmit cycles (power source probably in separate container, choice of line or battery power).	Audio-surveillance receiver, circuit of Set #1 receiver, to be used for receiving and relay station work.
3	Radio switch transmitter, circuit of Set #1 transmitter provided with keyed audio frequency oscillator instead of voice amplifier.	Radio switch receiver, circuit of Set #1 receiver with relay in output in place of phones.

5. Before beginning the replanning of the P-101 and P-115 work, [redacted] will be informed that failure to meet such deadlines as are agreed upon shall constitute sufficient reason for further action. Further action will be explained to include formal complaints to [redacted] or termination of the contracts. In particular, loss of cleared personnel to competitors will not be tolerated. During the planning it will no doubt become evident that more cleared personnel will be needed and the importance of early requests for clearances will be stressed once again. 25X1 25X1 25X1

6. It is hoped that in the course of planning the projects both APD and [redacted] will get a clarified picture of the various steps to be taken, the order in which they are to be taken, and the time required. 25X1

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[redacted]

TSS/APD

Distribution:
✓Orig. - P-101
1 - P-115
1 - Chrono
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